UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

7055

7590

04/06/2004

GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191 EXAMINER
AMARI, ALESSANDRO V

ART UNIT

PAPER NUMBER

2872

DATE MAILED: 04/06/2004

[APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/918,440	08/01/2001	Koichi Maruyama	P21012	4706

TITLE OF INVENTION: OBJECTIVE LENS FOR OPTICAL PICK-UP

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/06/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>				
INSTRUCTIONS: This fo appropriate. All further co- indicated unless corrected maintenance fee notification	rm should be used for tran rrespondence including the l below or directed otherwise as.	smitting the ISSUP Patent, advance ord in Block 1, by (a)	E FEE and PUE ders and notificat) specifying a ne	LICATION FEE (if req ion of maintenance fees w correspondence addres	uired). Blocks 1 through 4 s will be mailed to the current s; and/or (b) indicating a sep	should be completed where t correspondence address a arate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE	CE ADDRESS (Note: Legibly mark-up	with any corrections or	use Block 1)	Note: A certificate of	f mailing can only be used f	or domestic mailings of the	
	,			Fee(s) Transmittal. T papers. Each addition	his certificate cannot be used nal paper, such as an assignm ate of mailing or transmission.	for any other accompanying ent or formal drawing, mus	
	590 04/06/2004	_		have its own certifica	te of mailing or transmission.	3,	
GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Uni States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsin transmitted to the USPTO, on the date indicated below.			
				transmitted to the US	PTO, on the date indicated be		
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	F	FIRST NAMED IN	VENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/918,440	08/01/2001		Koichi Maruy	rama	P21012	4706	
TITLE OF INVENTION: O	BJECTIVE LENS FOR OPT	TICAL PICK-UP					
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nonprovisional	NO	\$1330		\$300	\$1630	07/06/2004	
EXAM	IINER	ART UNI	iT	CLASS-SUBCLASS]		
AMARI, ALE	SSANDRO V	2872		359-566000	_		
CFR 1.363).	e address or indication of "Fe ence address (or Change of C 22) attached.	, l	names of up agents OR, all firm (having a	to 3 registered patent ternatively, (2) the name as a member a registered	attorneys or 1 of a single attorney or 2		
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATENT (pr	int or type)			
	an assignee is identified bel d to the USPTO or is being s	ow, no assignee da ubmitted under sep	ata will appear on parate cover. Com		assignee data is only appropri T a substitute for filing an ass DUNTRY)	ate when an assignment has ignment.	
Please check the appropriate	assignee category or categor	ries (will not be pri	nted on the paten	i); 🚨 individual 🚨	corporation or other private g	roup entity	
4a. The following fee(s) are	enclosed:	4b.	Payment of Fee(s):			
☐ Issue Fee			A check in the	amount of the fee(s) is er	closed.		
☐ Publication Fee			☐ Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of	Copies		☐ The Director Deposit Account	is hereby authorized by on Number	charge the required fee(s), or (enclose an extra c	credit any overpayment, to copy of this form).	
Director for Patents is reque	sted to apply the Issue Fee an	nd Publication Fee ((if any) or to re-ap	oply any previously paid	issue fee to the application ide	entified above.	
(Authorized Signature)		(Date)				-	
other than the applicant; interest as shown by the re-	Publication Fee (if require a registered attorney or age cords of the United States Pa	ent; or the assigned tent and Trademark	e or other party Office.	in			
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing t Patent and Trademark (22313-1450. DO NOT S SEND TO: Commissioner	tion is required by 37 CFR by the public which is to fil it is governed by 35 U.S.C. I less to complete, including gain to the USPTO. Time will the amount of time you rehis burden, should be sent to Diffice, U.S. Department of END FEES OR COMPLET for Patents, Alexandria, Virg	1.311. The inform le (and by the USI 22 and 37 CFR 1.14 thering, preparing, I vary depending u equire to complete o the Chief Inform of Commerce, AI TED FORMS TO inia 22313-1450.	ation is required PTO to process) 4. This collection and submitting t upon the individu e this form and lation Officer, U exandria, Virgir THIS ADDRES	to aan is he he hal or S. S. S. S.			
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7055	7590 04/06/2004		EXAMINER		
	& BERNSTEIN, P.L. CLARKE PLACE	3.	AMARI, ALESSANDRO V		
RESTON, VA 20			ART UNIT	PAPER NUMBER	
			2872		
			DATE MAILED: 04/06/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

*	Application No.	Applicant(s)	••			
Notice of Allowability	09/918,440		MARUYAMA, KOICHI			
Notice of Allowability	Examiner	Art Unit				
	Alessandro V. Amari	2872				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (The Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport of the communication GHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS			
1. This communication is responsive to <u>amdt of 1/14/2004</u> .						
2. The allowed claim(s) is/are <u>1-12</u> .						
3. \boxtimes The drawings filed on <u>01 August 2001</u> are accepted by the	Examiner.					
4. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL.						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amenda 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	·			

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REASONS FOR ALLOWANCE

1. Claims 1-12 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Claims 1, 6 and 7 are allowable over the prior art for at least the reason that the prior art fails to teach or reasonably suggest, "an exclusive area through which light passes for forming a beam spot on optical discs of the first format but not the second format" as set forth in the claimed combination. Claims 2-5 and 8-12 are also allowable based on their dependence thereto.

The prior art of record, Saito teaches an objective lens for an optical pickup configured for use with optical discs of a first format and second format wherein at least one surface of said objective lens being an aspherical surface, said surface being divided into an effective area and an outer area outside said effective area, said effective area and said outer area being formed such that a predetermined gap is caused between a spherical aberration of a light beam passed through said effective area and a spherical aberration of a light beam passed through said outer area, a diffraction lens structure being formed on said at least one surface within said effective area. However, Saito does not teach the first format having a higher information density than the second format and that an exclusive area through which light passes for forming a beam spot on optical discs is for the first format having the higher information density but not the second format and there is no motivation or teaching to modify this difference as derived. Saito teaches that the exclusive area, interpreted as area Sd2 in

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Art Unit: 2872

Figure 12(a) is for the Compact Disc (CD) format which has a lower information density

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than the second format (i.e., Digital Video Disc or DVD).

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alessandro V. Amari whose telephone number is (571)

272-2306. The examiner can normally be reached on Monday-Friday 8:00 AM to 5:30

PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

ava **Q14** 29 March 2004 MARK A. ROBINSON
PRIMARY EXAMINER